

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS AND LED COUNTDOWN PEDESTRIAN SIGNALS ON THE SOUTH LEG OF THE INTERSECTION OF US 13 BUSINESS (S. SALISBURY BOULEVARD) AND OHIO AVENUE IN WICOMICO COUNTY. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL TRAFFIC-ACTUATED MODE. A SIDE STREET ALTERNATE PEDESTRIAN PHASE IS PROPOSED.

APS WILL FUNCTION AS FOLLOWS:
FOR SOUTH SALISBURY BOULEVARD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS SOUTH SALISBURY AT OHIO".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL A 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

THE CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
District Utility Engineer
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7650

The Power Company Representative is:
Delmarva Power
2530 N Salisbury Blvd.
Salisbury, Maryland
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9571	2 SF	UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN:
	2 EA	RIO-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS S. SALISBURY BLVD"

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
----------	----------	-------------

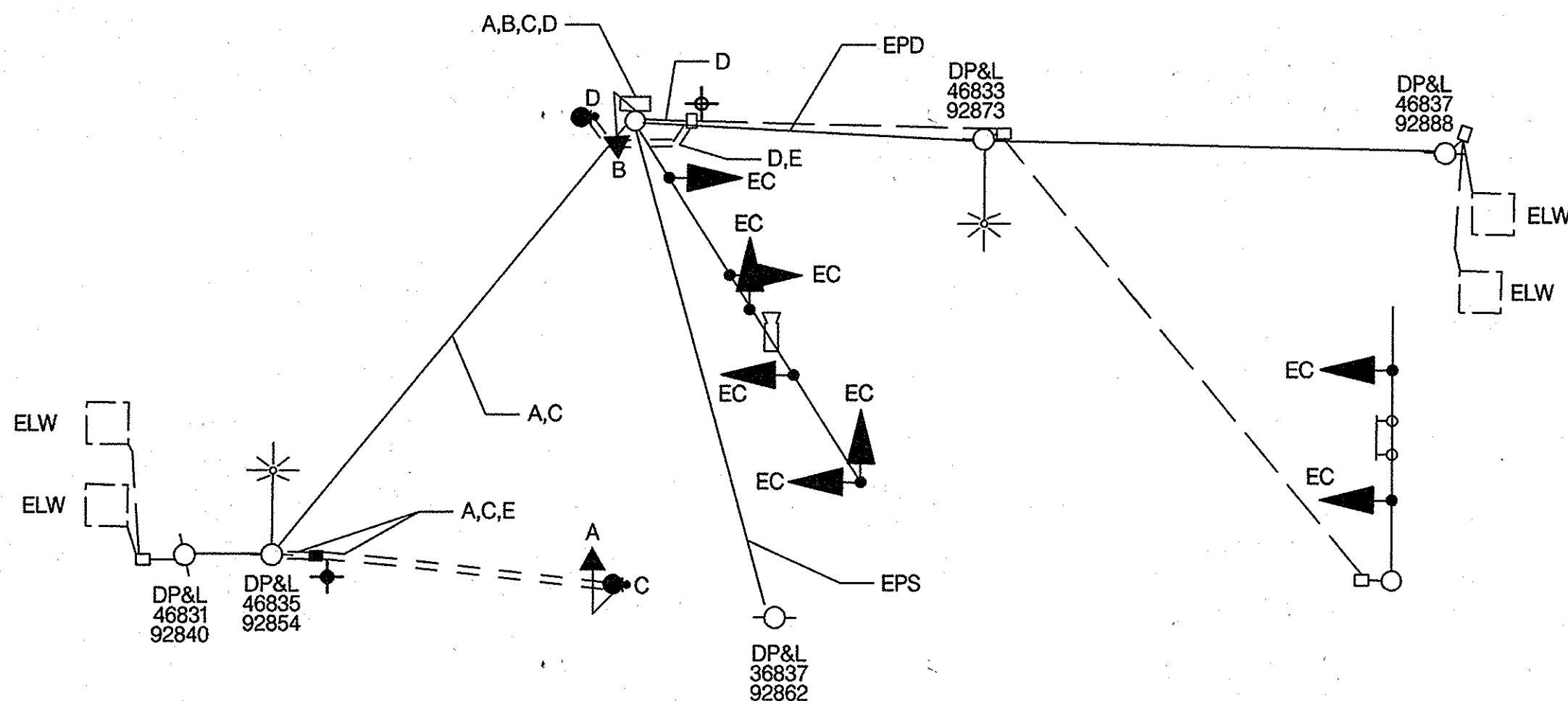
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5001	50 LF	5 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5003	150 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5004	100 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5006	100 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
6001	70 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	300 SF	5 INCH CONCRETE SIDEWALK
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8007	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8008	2 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8011	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8016	40 LF	3 INCH ELECTRICAL CONDUIT SCHEDULE 80 RIGID PVC-RISER
8019	50 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
8020	20 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8021	20 SF	DETECTABLE WARNING SURFACES
8027	80 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8028	1 EA	WEATHER HEAD, 3 INCH
8030	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8032	2 SF	INSTALL OVERHEAD SIGN
8037	360 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8039	360 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8001	20 EA	12 INCH LED SIGNAL HEAD SECTION

WIRING DIAGRAM



A ELECTRICAL CABLE -
B 5 CONDUCTOR (NO. 14 AWG)

C ELECTRICAL CABLE -
D 2 CONDUCTOR (NO. 14 AWG)

E NO. 6 STANDARD BARE
COPPER GROUND WIRE

EXISTING GROUND ROD - 3/4 INCH
DIAMETER X 10 FOOT LENGTH.

EC- EXISTING CABLE

ELW- EXISTING LOOP WIRE

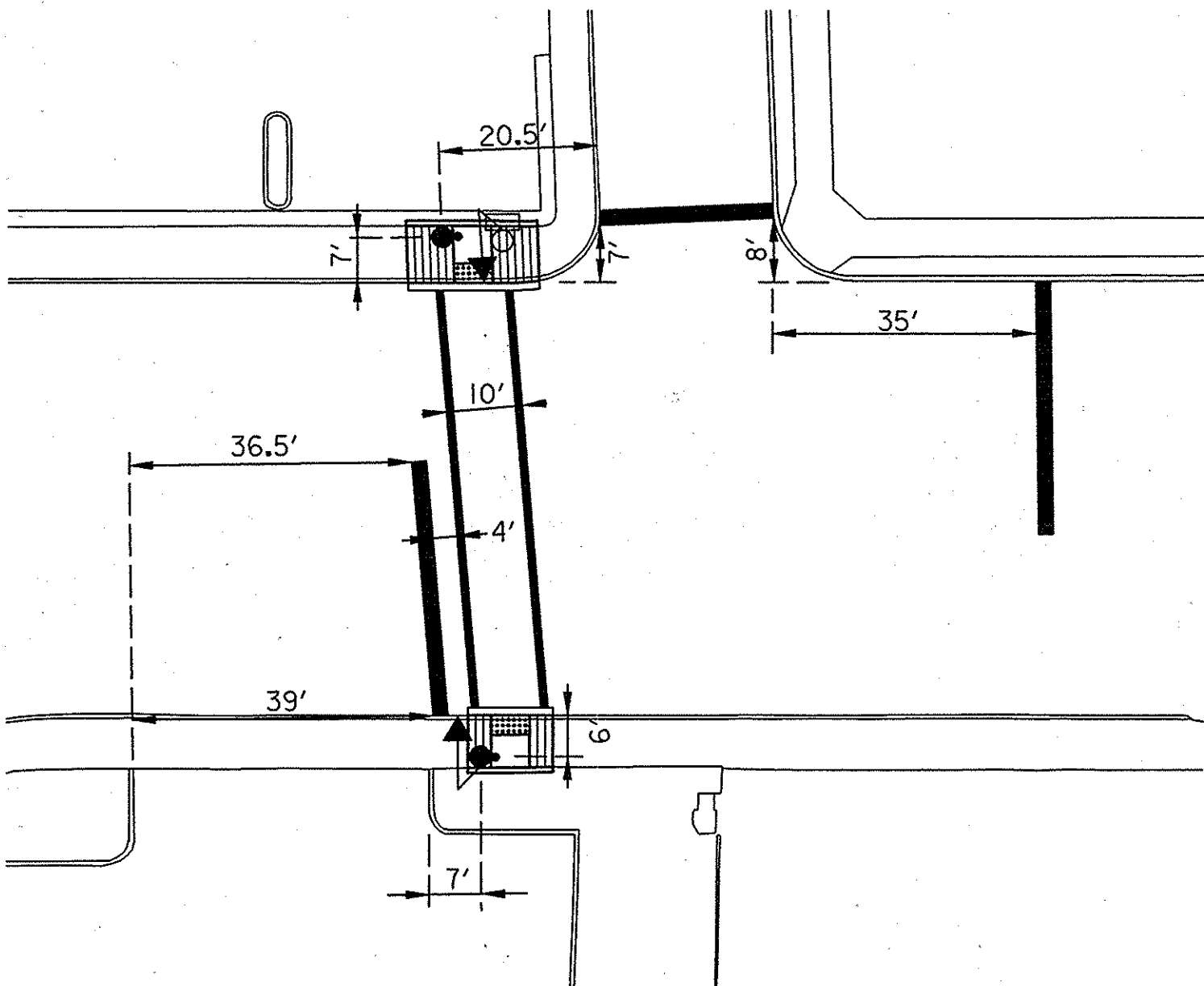
EPS- EXISTING POWER SERVICE

EPD- EXISTING PHONE DROP

PROPOSED GROUND ROD - 3/4 INCH
DIAMETER X 10 FOOT LENGTH.

PROPOSED SIGNAL EQUIPMENT AND PAVEMENT MARKING LAYOUT

SCALE: 1"=20'



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
	R Y G	R Y G	Y	Y	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	
PHASE 2 AND 6	G	G	FL/Y	FL/Y	G	G	R	R	DW	DW	
PHASE 2 AND 6 CHANGE	Y	Y	FL/Y	FL/Y	Y	Y	R	R	DW	DW	
PHASE 4	R	R	FL/Y	FL/Y	R	R	G	G	DW	DW	
PHASE 4 CHANGE	R	R	FL/Y	FL/Y	R	R	Y	Y	DW	DW	
PHASE 4 ALT.	R	R	FL/Y	FL/Y	R	R	G	G	W	W	
PHASE 4 ALT. PED. CLEARANCE	R	R	FL/Y	FL/Y	R	R	G	G	FL/DW	FL/DW	
PHASE 4 ALT. CHANGE	R	R	FL/Y	FL/Y	R	R	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	DARK	DARK	

TEDD RED LINE #1 - UPGRADE TO LED SIGNALS 3/2008

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 13 BUSINESS (S. SALISBURY BOULEVARD)
AT OHIO AVENUE

GENERAL INFORMATION

SCALE NONE ADVISED DATE 12/008 CONTRACT NO. XX3405185

DESIGNED BY VGN COUNTY WICOMICO
DRAWN BY AMT LOGMILE 22801304.82
CHECKED BY BAB TMS NO. 1457
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 1937C-GI DRAWING SG - 02 OF 02 SHEET NO. 2 OF 2

STV Incorporated

engineers / architects / planners / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

PLOTTED: Monday, March 31, 2008 AT 09:57 AM
FILE: J:\DATA\1457\Redline #1\US13-1400_us13_gho.dgn